

**BDNF Mouse mAb [D2V7]**

**Cat NO. :A90094**

**Information:**

Applications	Reactivity:	UniProt ID:	MW(kDa)	Host	Isotype	Size
WB	M,R	P21237	28kDa	Mouse	IgG	50ul,100ul,200ul

**Applications detail:**

Application	Dilution
WB	1:1000-2000
The optimal dilutions should be determined by the end user	

**Conjugate:**

UnConjugate

**Form:**

Liquid

**sensitivity:**

Endogenous

**Purification:**

Protein A purification

**Specificity:**

Antibody is produced by immunizing animals with a synthetic peptide of Mouse BDNF.

**Storage buffer and conditions:**

Antibody store in 10 mM PBS, 0.5mg/ml BSA, 50% glycerol (buffer) .

Shipped at 4°C. Store at -20°C or -80°C.

Products are valid for one natural year of receipt.Avoid repeated freeze / thaw cycles.

**Tissue specificity:**

Expressed in the dorsal root ganglion and the spinal cord (at protein level) (PubMed:28111162). Detected in brain, especially in brain cortex, hippocampus, midbrain and cerebellum (PubMed:2369898,

**Subcellular location:**

Secreted.,[BDNF precursor form]: Secreted.

**Function:**

**Introduction:** **WB:** Western Blot **IP:** Immunoprecipitation **IHC:** Immunohistochemistry **ChIP:** Chromatin Immunoprecipitation **ICC/IF:** Immunocytochemistry/Immunofluorescence **F:** Flow Cytometry

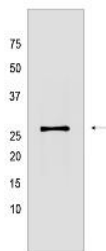
**Cross Reactivity:** **H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Ml:** mink **C:** chicken **Dm** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Hr:** horse

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Important signaling molecule that activates signaling cascades downstream of NTRK2 (PubMed:27457814). During development, promotes the survival and differentiation of selected neuronal populations of the peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability (PubMed:8139657, PubMed:15486301, PubMed:17023662, PubMed:27457814, PubMed:29909994)..., [BDNF precursor form]: Important signaling molecule that activates signaling cascades downstream of NTRK2 (PubMed:27457814). Activates signaling cascades via the heterodimeric receptor formed by NGFR and SORCS2 (PubMed:24908487, PubMed:29909994). Signaling via NGFR and SORCS2 plays a role in synaptic plasticity and long-term depression (LTD) (PubMed:27457814). Binding to NGFR and SORCS2 promotes neuronal apoptosis (PubMed:24908487). Promotes neuronal growth cone collapse (PubMed:24908487, PubMed:27457814)..

## Validation Data:

### BDNF Mouse mAb [D2V7] Images



Western blot (SDS PAGE) analysis of extracts from Mouse lung Tissue lysate. Using BDNF Mouse mAb [D2V7] at dilution of 1:1000 incubated at 4°C over night.

View more information on <http://naturebios.com>

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 1% w/v Milk, 1X TBST at 4°C overnight.